



Coordinated Transportation Investment Plan

2010 and 2030 Traffic Forecasts
July 12, 2005

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Agenda

- Existing traffic conditions
- Assumptions
 - Land use assumptions
 - Roadway network assumptions
- 2010 and 2030 traffic forecasts
 - Level of Service (LOS)
LOS A to LOS F
 - Intersection LOS (Delay)
 - Corridor LOS (Average Travel Speed)

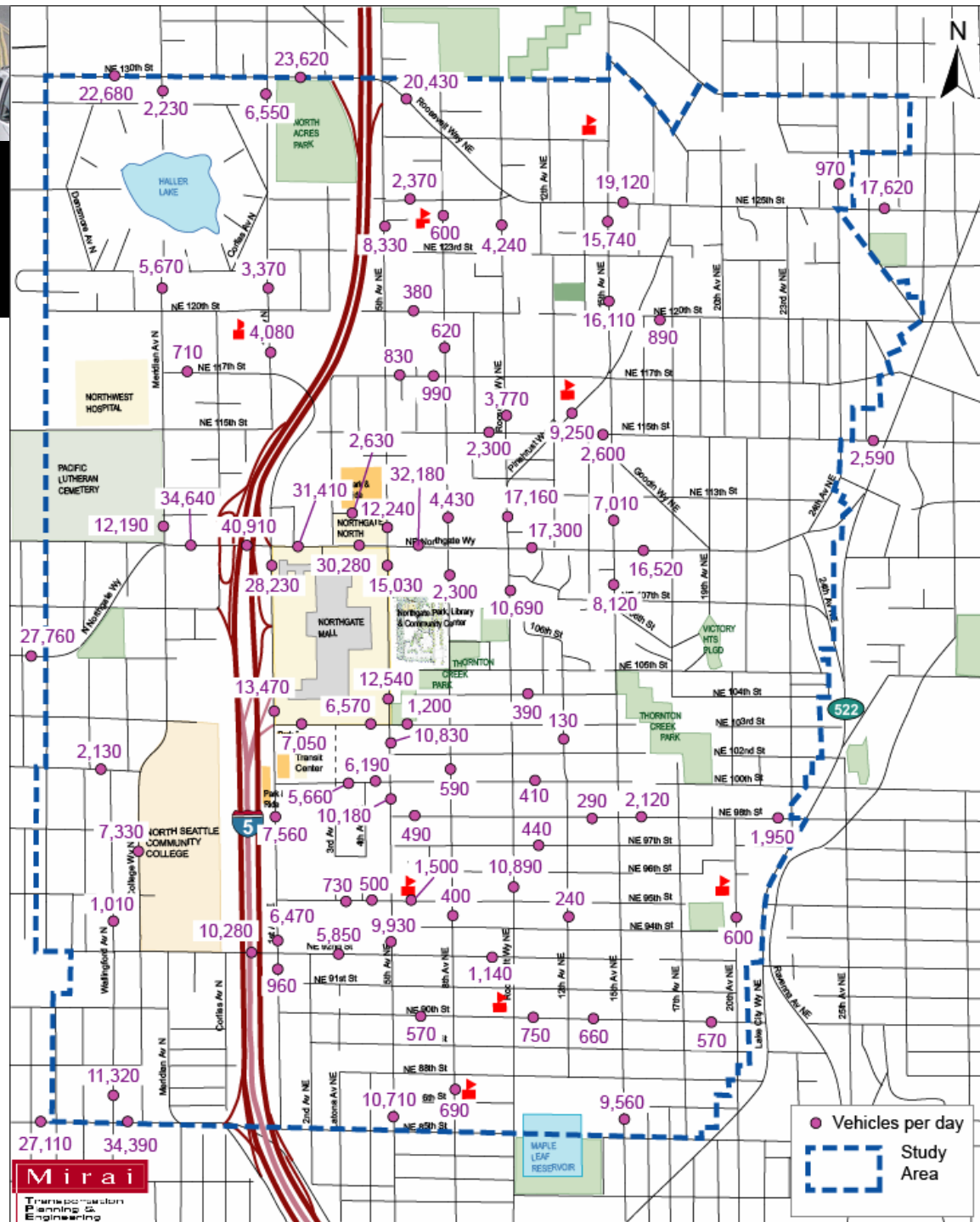
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Existing Traffic Conditions

- 2004/2005 daily traffic volumes
 - Northgate Way: 16,000 – 40,000 vehicles per day
 - Local streets: 240 to 1,950 vehicles per day

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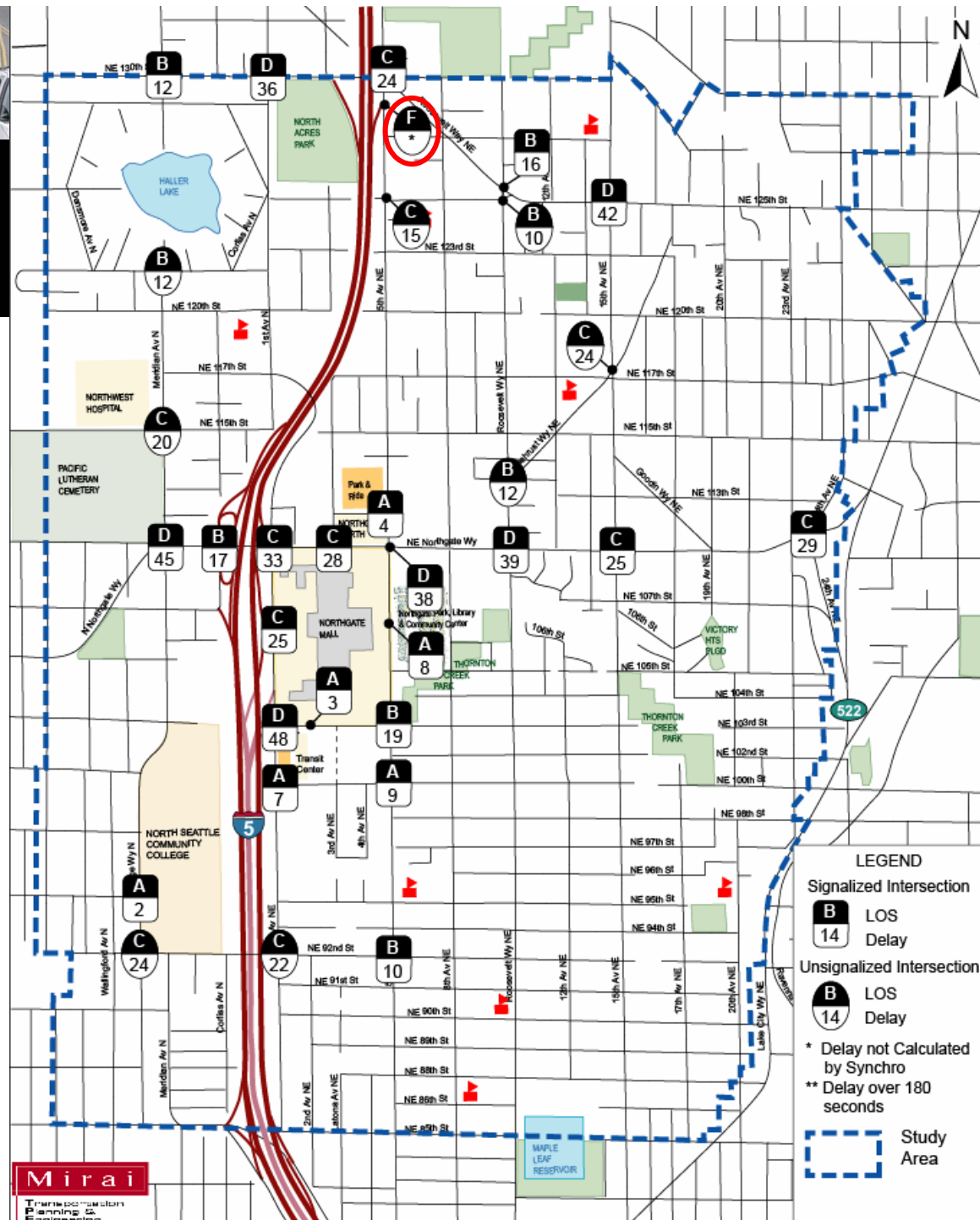




Existing Traffic Conditions

- Existing PM peak hour intersection levels of service and delay
 - Signalized intersections
 - All at LOS D or better
 - Unsignalized intersection
 - One intersection at LOS F (I-5 NB off ramp at 5th Ave)

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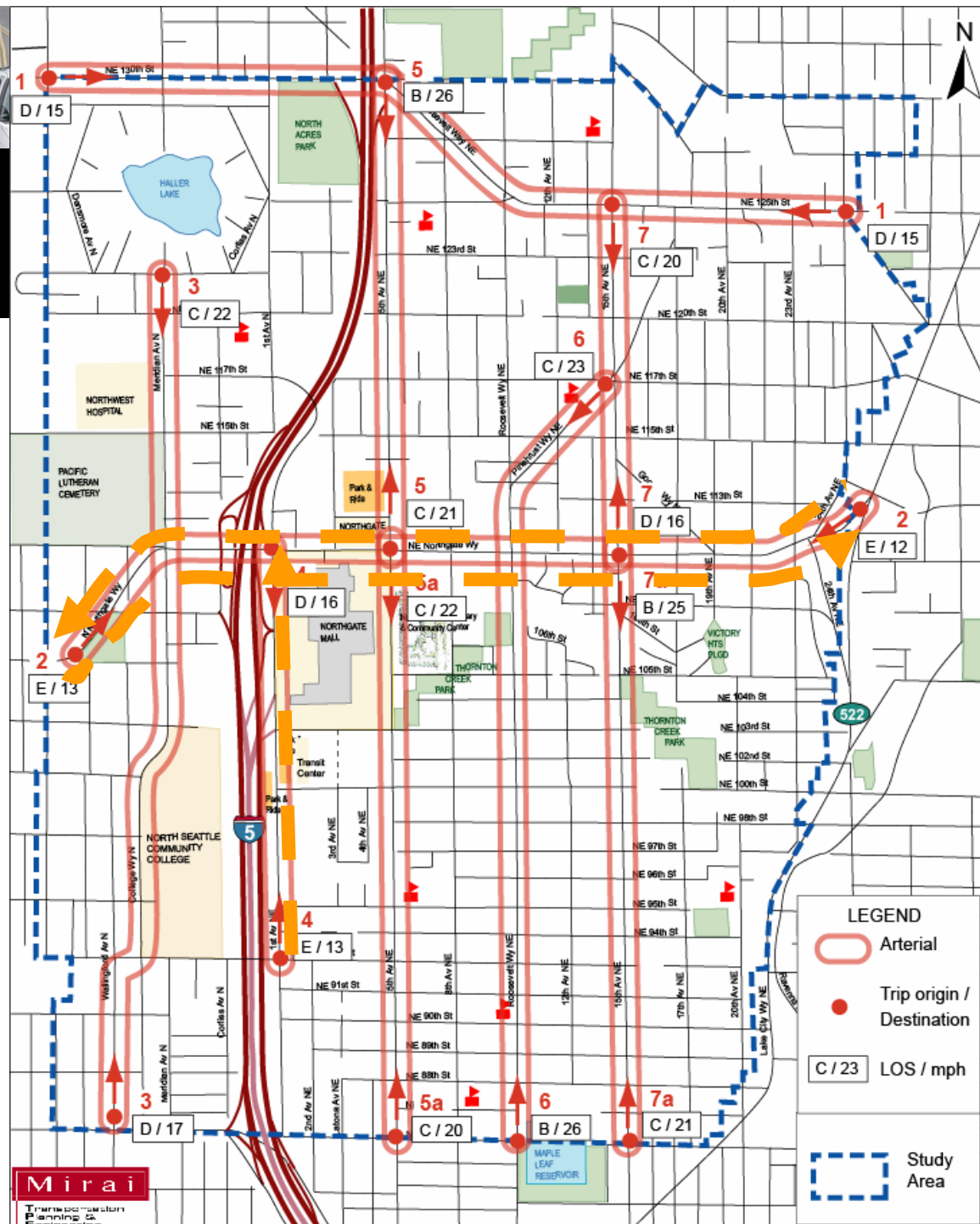




Existing Traffic Conditions

- Corridor levels of service
 - LOS benchmark: LOS D
 - Three corridors at LOS “E”
 - EB Northgate Way
 - WB Northgate Way
 - NB 1st Ave N between Northgate Way and NE 92nd St

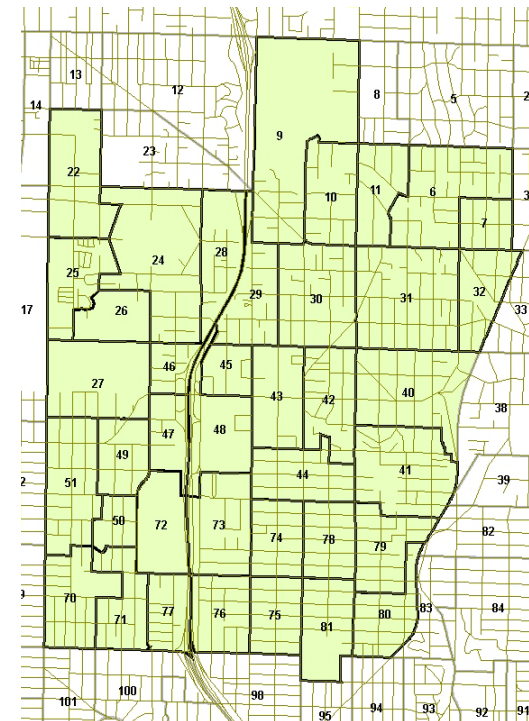
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2010 and 2030 Land Use Forecasts

Year	Household	% Increase (2000)	Employment	% Increase (2000)	Full-Time Equivalent Student	% Increase (2000)
2000	13,617	-	16,992	-	4,035	-
2010	15,164	11.4%	19,810	16.6%	4,405	9.2%
2030	19,746	45.0%	27,163	59.9%	5,152	27.7%

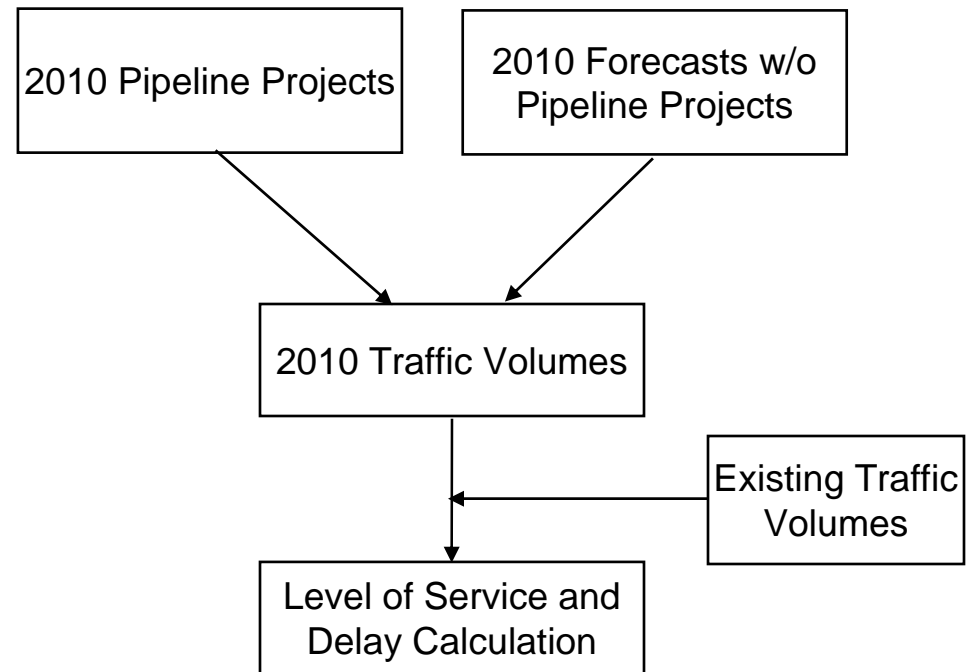


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2010 Traffic Forecast

- Seattle Model to obtain background traffic
- Add pipeline projects
- Combined volumes used for LOS calculation

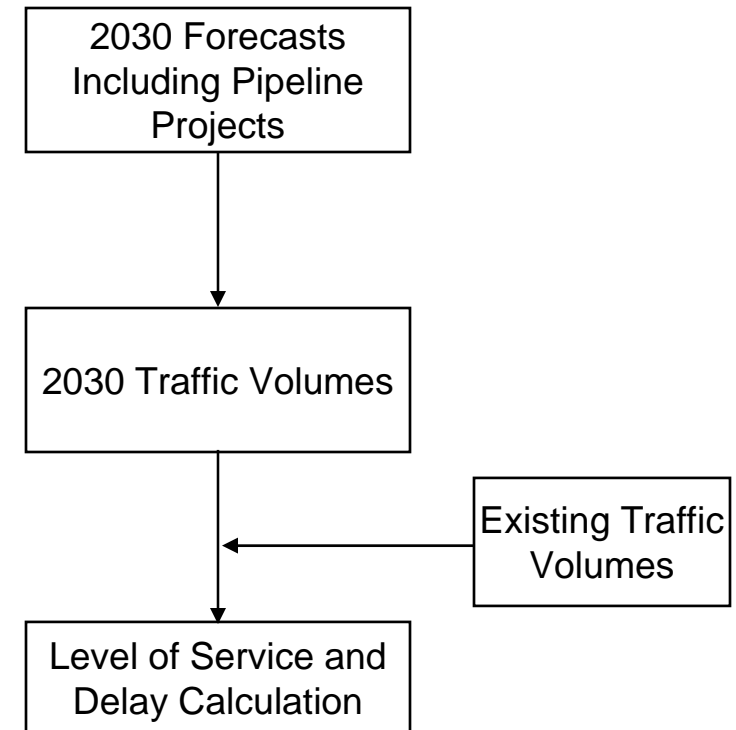


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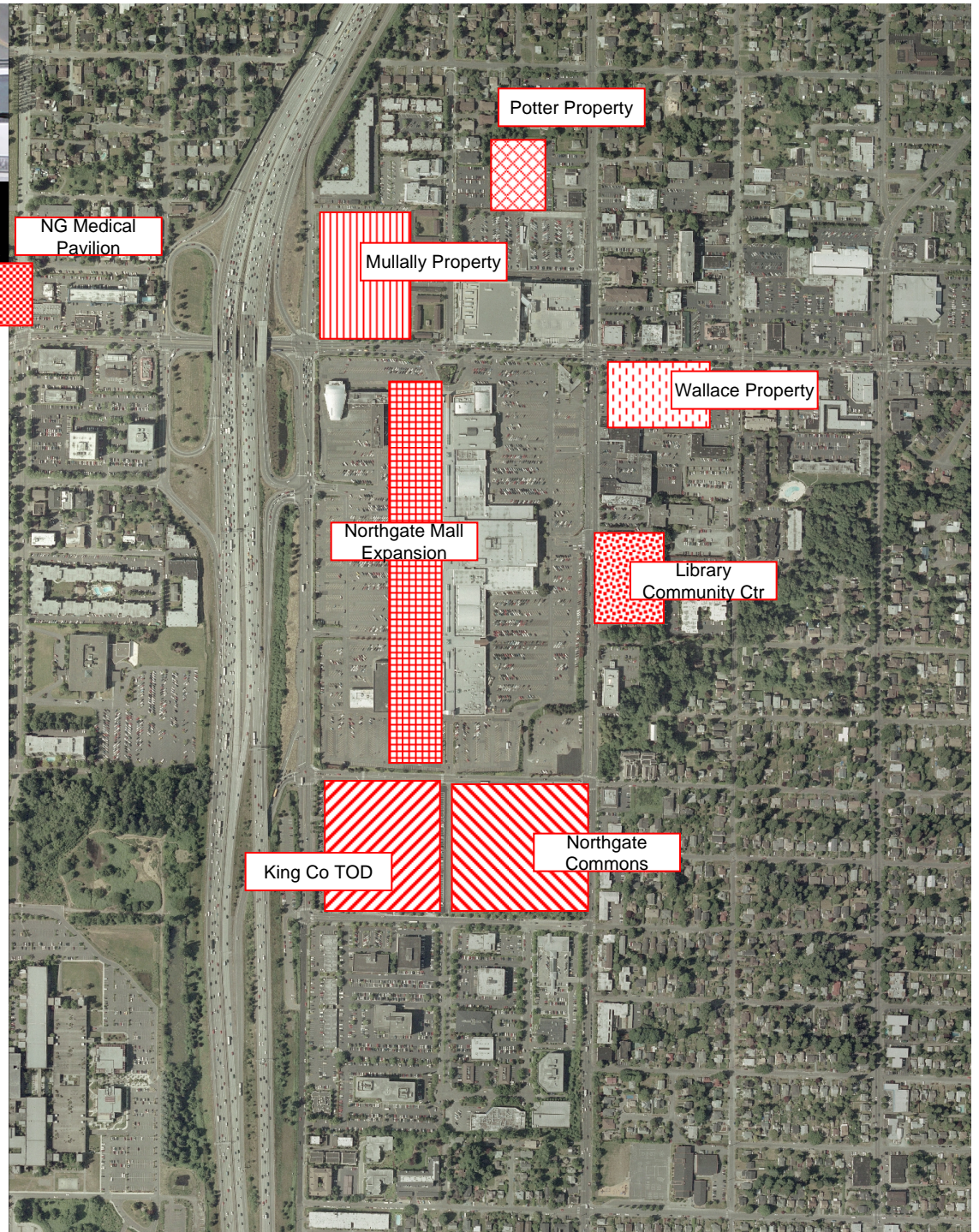
2030 Traffic Forecast Process

- Seattle Model to obtain 2030 volumes
- Levels of service/delay calculated





Pipeline Developments



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Roadway Assumptions

- 2010
 - New 3rd Ave NE
 - New signal at NE 103rd St/ 3rd Ave NE
- 2030
 - Reduced lanes on 1st Ave NE between NE 103rd St and NE 100 St
 - One additional lane on NE 103rd Street north of Metro TOD site

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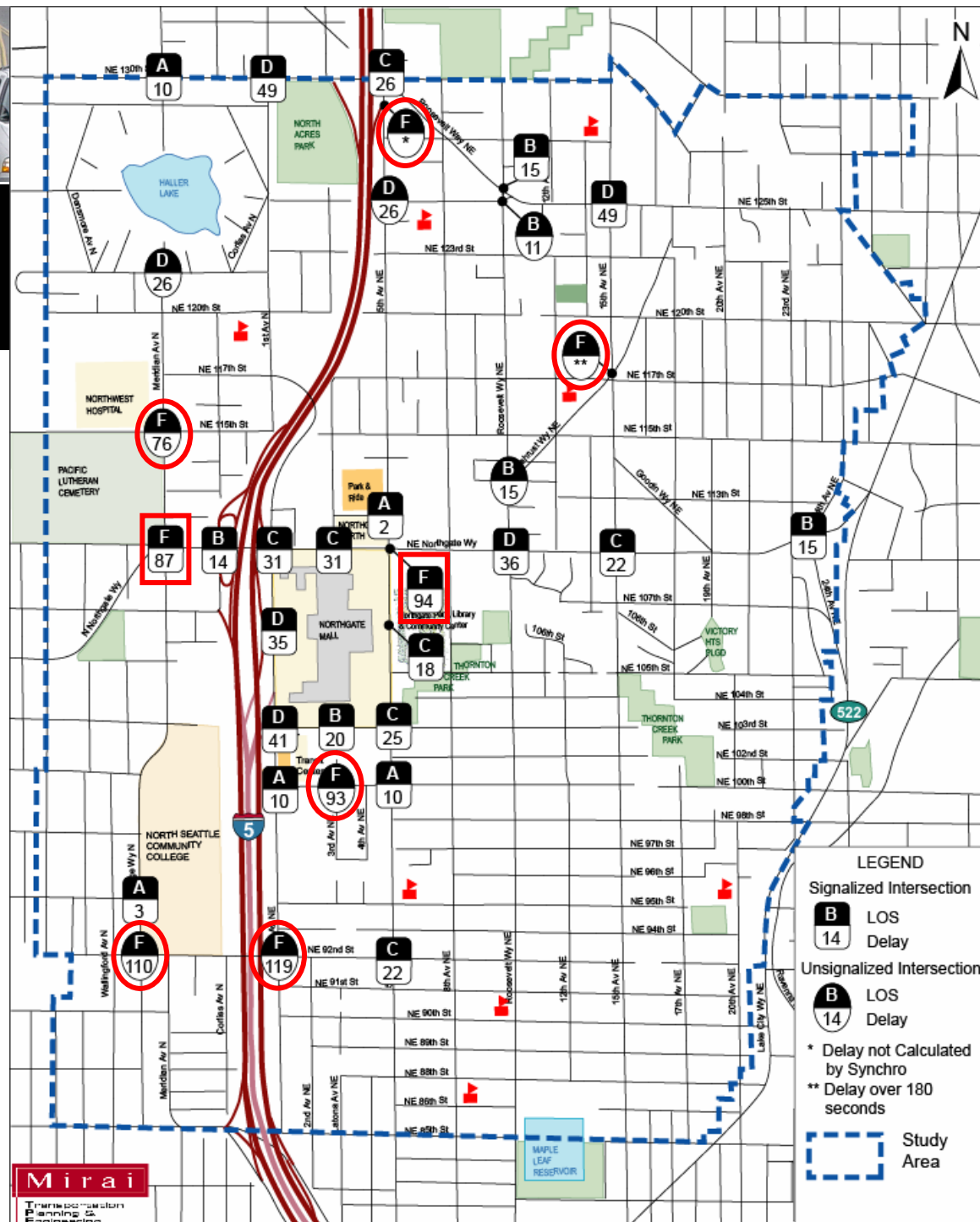




2010 Intersection Level of Service

- Two signalized intersection – LOS F
 - Meridian Ave & Northgate Way
 - Northgate Way & 5th Ave NE
- Six unsignalized intersections – LOS F

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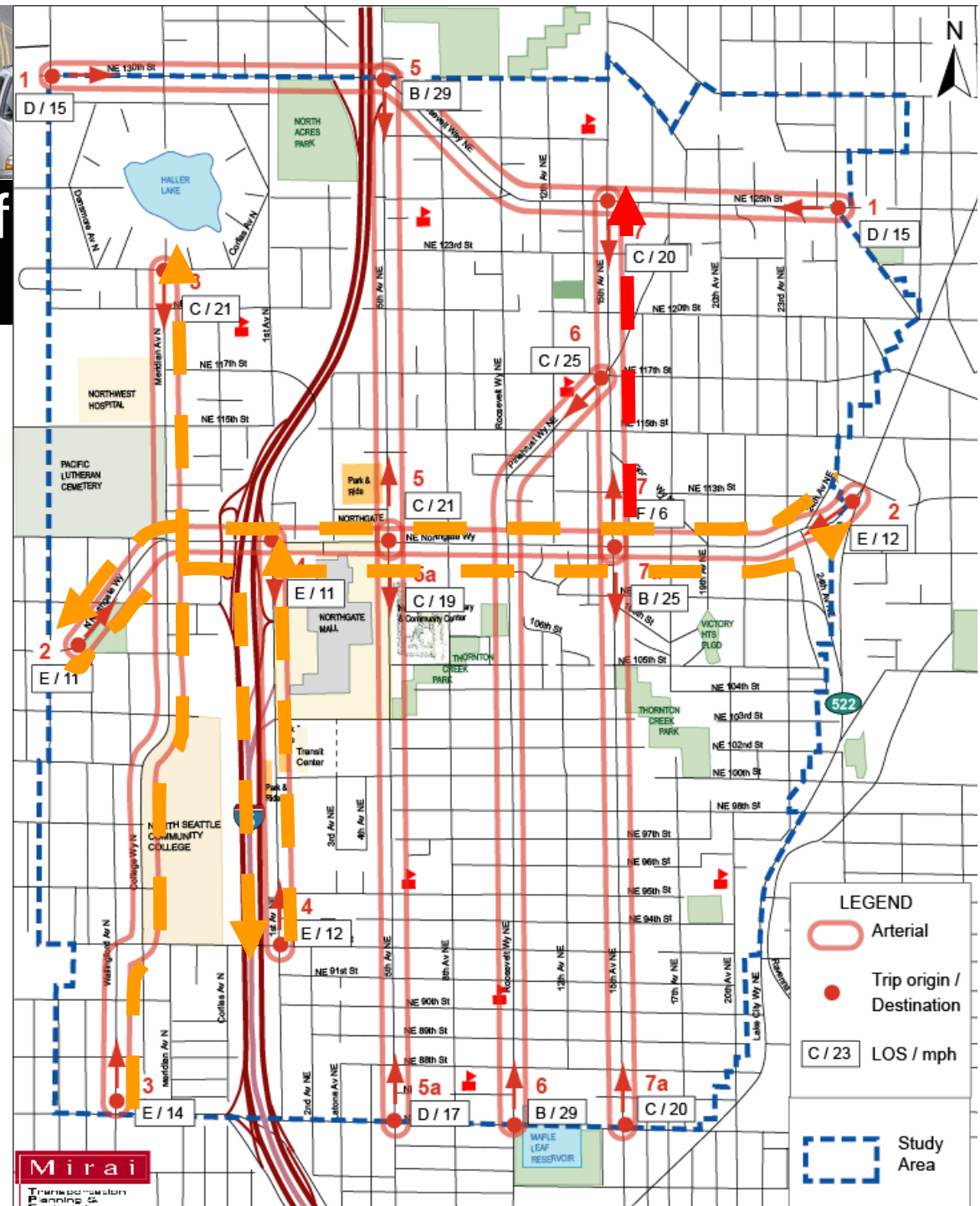




2010 Corridor Level of Service

- One LOS F corridor
 - NB 15th Ave N, N of Northgate Way
- Five LOS E corridors
 - WB and EB Northgate Way
 - NB Wallingford Ave / College Way/ Meridian Ave
 - NB and SB 1st Ave N

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- Two signalized intersection – LOS F
 - Meridian Ave & Northgate Way
 - Northgate Way & 5th Ave NE
- Six unsignalized intersections – LOS F

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Traffic Signal Planning & Analysis

LEGEND

- Signalized Intersection
 - B LOS
 - 14 Delay
- Unsignalized Intersection
 - B LOS
 - 14 Delay
- * Delay not Calculated by Synchro
- ** Delay over 180 seconds
- Study Area



2030 Corridor Level of Service

- Three corridors at LOS F
 - WB and EB Northgate Way
 - NB 15th Ave NE
- Six corridors at LOS E
 - WB and EB 125th/130th Street
 - NB Wallingford/ College Way/ Meridian Ave N
 - NB and SB 1st Ave N
 - NB 5th Ave NE

